

SEQUENCE LISTING

<110> Novartis AG

<120> Modified viral surface proteins for binding to extracellula r matrix components

<130> 4-30246a/GTI

<140> US 09/904,923

<141> 2001-07-13

<160> 3

<170> PatentIn version 3.1

<210> 1

<211> 229

<212> PRT

<213> Moloney murine leukemia virus

<400> 1

Ala Ser Pro Gly Ser Ser Pro His Gln Val Tyr Asn Ile Thr Trp Glu

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Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His 20 25 30

Pro Leu Trp Thr Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu 35 40 45

Ala His His Gly Pro Ser Tyr Trp Gly Leu Glu Tyr Gln Ser Pro Phe 50 55 60

Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly 65 70 75 80

Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys 85 90 95

Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser 100 105 110

Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser 115 120 125

Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys 130

Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Ser Trp Asp Phe 145 150 150

Ile Thr Val Asn Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys
165 170 175

Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala 180 185 190

Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg 195 200 205

Leu Tyr Val Ser Gly Gln Asp Pro Gly Leu Thr Phe Gly Ile Arg Leu 210 215 220

Arg Tyr Gln Asn Leu 225

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<212> DNA

<213> Moloney murine leukemia virus

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- cttaccccag atttatgtat gttagcccac catggaccat cttattgggg gctagaatat 180
- caatcccctt tttcttctcc cccggggccc ccttgttgct cagggggcag cagcccaggc 240
- tgttccagag actgcgaaga acctttaacc tccctcaccc ctcggtgcaa cactgcctgg 300
- aacagactca agctagacca gacaactcat aaatcaaatg agggatttta tgtttgcccc 360
- gggccccacc gcccccgaga atccaagtca tgtgggggtc cagactcctt ctactgtgcc 420
- tattggggct gtgagacaac cggtagagct tactggaagc cctcctcatc atgggatttc
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- tggtgcaacc ccttagttat tcggtttaca gacgccggga gacgggttac ttcctggacc
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<213> Artificial Sequence

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<223> collagen-binding domain of von Willebrand Factor

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<222> (1)..(10)
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Trp Arg Glu Pro Ser Phe Met Ala Leu Ser
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